

Electrafil® PP-60/CC/20/EC BK

Techmer Polymer Modifiers - *Polypropylene*

General

| | |
|------------------------|---------------------------|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Filler / Reinforcement | • Calcium Carbonate |
| Features | • Electrically Conductive |
| Processing Method | • Injection Molding |

Properties ¹

| | Nominal Value | Unit | Test Method |
|---|------------------|----------|-------------|
| Physical | | | |
| Density / Specific Gravity | 1.15 | | ASTM D792 |
| Molding Shrinkage - Flow (0.125 in) | 0.010 to 0.012 | in/in | ASTM D955 |
| Mechanical | | | |
| Tensile Strength (Yield) | 4200 | psi | ASTM D638 |
| Tensile Elongation (Break) | 6.0 | % | ASTM D638 |
| Flexural Modulus | 400000 | psi | ASTM D790 |
| Flexural Strength | 7000 | psi | ASTM D790 |
| Impact | | | |
| Notched Izod Impact (0.125 in) | 0.70 | ft·lb/in | ASTM D256 |
| Unnotched Izod Impact (0.125 in) | 7.0 | ft·lb/in | ASTM D256 |
| Thermal | | | |
| Deflection Temperature Under Load (264 psi, Unannealed) | 170 | °F | ASTM D648 |
| Electrical | | | |
| Surface Resistivity | 1.0E+2 to 1.0E+6 | ohms | ASTM D257 |

Processing Information

| | Nominal Value | Unit |
|------------------------|---------------|------|
| Injection | | |
| Drying Temperature | 150 | °F |
| Drying Time | 2.0 to 3.0 | hr |
| Rear Temperature | 400 to 430 | °F |
| Middle Temperature | 410 to 440 | °F |
| Front Temperature | 420 to 450 | °F |
| Nozzle Temperature | 410 to 440 | °F |
| Processing (Melt) Temp | 400 to 450 | °F |
| Mold Temperature | 100 to 150 | °F |
| Injection Rate | Moderate | |
| Back Pressure | 50.0 to 100 | psi |
| Screw Speed | Slow-Moderate | |

